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Jeffrey D. Laksin, Ph.D.

PI - Signature

Date

Advances in the Biology and Treatment of the Skin

Rutgers University Busch Campus, Piscataway, NJ (June 23 – 25, 1999)

SESSIONS I & 2: SKIN SCIENCE ~ NEW TECHNOLOGIES, NEW INSIGHTS

Wednesday, June 23

8:20 ~ 8:30 am **Welcome Remarks & Introduction** Jeffrey D. Laskin, Ph.D.

SESSIONS 1 & 2: Skin Science: New Technologies, New Insights

SESSION I: Moderator: Diane E. Heck, Ph.D.

8:30 a.m. Transgenic Models for Studying Growth Factor Signaling in Mouse Skin
John DiGiovanni, Ph.D.

8:55 a.m. Gene Microchip Analysis of Dermal Microvascular Endothelial Cells
Diane E. Heck, Ph.D.

9:05 a.m. Subtraction Libraries & Microarrays to Study Keratinocyte Gene Expression
John J. Schlager, Ph.D.

9:30 a.m. Strategies of Epithelial Repair: Differential Modulation of Stem Cells
& Transit Amplifying Cells
Robert Lavker, Ph.D.

9:55 ~ 10:25 a.m. Coffee Break

SESSION II Moderator: Christopher J. Molloy, Ph.D.

10:25 a.m. Keratinocyte Cell Cycle Regulation in a Mouse Tumor Model
David K. Bol, Ph.D.

10:50 a.m. Epidermal Keratinocyte Response to Natural & Synthetic
Peroxisome Proliferators
Brian Aneskievich, Ph.D.

11:15 a.m. Disorders in Keratins: A Molecular Basis for Skin Disease
Dennis Roop, Ph.D.

12:05 ~ 1:30 p.m. Lunch & Poster Session

SESSIONS 3 & 4: THE BIOLOGY OF SKIN DISEASE

SESSION III Moderator: Alice B. Gottlieb, M.D., Ph.D.

1:30 p.m. An Albertian-Biological View of Irritant Dermatitis
Howard I. Maibach, M.D.

1:55 p.m. Antigen Processing & T-cell Function in Allergic Contact Dermatitis
Richard Kalish, M.D.

2:20 p.m. Pathogenesis & Treatment of Cutaneous T-cell Lymphoma
Alain Rook, M.D.

2:45 ~ 3:10 p.m. Coffee Break

- SESSION IV** Moderator: Howard I. Maibach, M.D.
- 3:10 p.m. The Immunopathology of Leprosy: The Original Th1 & Thy2 Paradigm
William Levis, M.D.
- 3:35 p.m. Psoriasis: The Model for Th1-type Immune Disorders
Alice B. Gottlieb, M.D., Ph.D.
- 4:00 p.m. Pemphigus: Skin Failure Due to Loss of Cell Adhesion
John R. Stanley, M.D.
- 4:25 p.m. A Fully Human Anti-IL-8 Antibody in the Treatment of Psoriasis
Gerald Krueger, M.D.
- 4:35 ~ 6:00 p.m. Posters & Reception

Thursday, June 24

SESSIONS 5 & 6: CANCER ~ PHOTOBIOLOGY

- SESSION V** Moderator: Allan H. Conney, Ph.D.
- 8:30 a.m. Photocarcinogenesis in Ornithine Decarboxylase Transgenic Mice
Hasan Mukhtar, Ph.D.
- 8:55 a.m. Aberrant Cell Cycle Regulation in Melanoma
Ruth Halaban, Ph.D.
- 9:20 a.m. The Role of Protein Kinase C in the Development of Malignant Melanoma
Susan Rotenberg, Ph.D.
- 9:55 a.m. Ornithine Decarboxylase, Keratinocyte Growth Regulation & Skin Cancer
Susan Gilmour, Ph.D.
- 10:20 ~ 10:40 a.m. Coffee Break
- SESSION VI** Moderator: Jeffrey D. Laskin, Ph.D.
- 10:40 a.m. State of the Art of Photoprotection
Prof. Dr. rer. Nat. Hans Schaefer
- 11:05 a.m. Toxicity of Chronically Applied Chemicals & Some Similarities to Photodamage
Lorraine H. Kligman, Ph.D.
- 11:25 a.m. Psoralen Photobiology, Psoriasis, PUVA & Skin Cancer, Genotoxic or Immunotoxic?
Suggestions from Molecular Epidemiology
Frank Gasparro, Ph.D.
- 11:50 a.m. UV-Induced MMP-1 Production ~ An In vitro Model for Assessing Photoprotection
Stan Shapiro, Ph.D.
- 12:15 ~ 1:30 p.m. Lunch & Posters

**SESSIONS 7 & 8: REDOX REGULATION, OXIDATIVE STRESS & ANTIOXIDANTS IN THE SKIN ~
PHOTOAGING & PHOTODAMAGE**

- SESSION VII** Moderator: Edward J. Yurkow, Ph.D.
- 1:30 p.m. Redox Status of the Skin
Edward Yurkow, Ph.D.

1:45 p.m.	Nitric Oxide and Skin Inflammation Jeffrey D. Laskin, Ph.D.
1:55 p.m.	Site-specific Oxidative Stress in Keratinocyte Phospholipids: A Signaling Pathway in Apoptosis Valerian E. Kagan, Ph.D.
2:20 p.m.	Coenzyme Q10, A Cutaneous Antioxidant & Energizer Udo Hoppe, M.D.
2:45 p.m.	High Strength Tretinoin Treatment of Photoaged Skin Douglas Kligman, M.D., Ph.D.
3:10 ~ 3:30 p.m.	Coffee Break
SESSION VIII Moderator: Diane E. Heck, Ph.D.	
3:30 p.m.	Drugs, Cosmetics & the Skin ~ An Appraisal of Albert Kligman's Ideas Myra Barker, Ph.D.
3:55 p.m.	Identifying Natural Products with Anti-Inflammatory Activity Katharine Martin, Ph.D.
4:05 p.m.	Anti-oxidant Inhibition of Photodamage: A Clinical Evaluation Daniel Maes, Ph.D.
4:15 p.m.	Genistein, A Novel Chemical for the Prevention of Skin Cancers & Photodamage Mark Lebwohl, M.D.
4:40 p.m.	Mechanisms of Photoaging & Prevention by Retinoids John Voorhees, M.D.
5:30 ~ 6:30 p.m.	Reception & Poster Session
7:00 ~ 9:30 p.m.	Banquet Dinner in honor of Dr. Albert Kligman

Friday, June 25

SESSIONS 9 & 10: HAIR, MODELS & MECHANISMS ~ BASEMENT MEMBRANE - CUTANEOUS PHARMACOLOGY

SESSION IX Moderators: T-T Sun, Ph.D. and Donald Gerecke, Ph.D.	
8:30 a.m.	Role of the Sulfotransferase Gene Family in Hair Growth Regulation & Skin Differentiation Thomas P. Dooley, Ph.D.
8:55 a.m.	The Dermal-Epidermal Junction Robert Burgeson, Ph.D.
9:20 a.m.	Molecular Aspects of Inherited Alopecias Angela M. Christiano, Ph.D.
9:45 ~ 10:15 a.m.	Coffee Break
10:15 a.m.	Molecular Genetics of Cutaneous Basement Membrane Zone Jouni Uitto, M.D., Ph.D.
SESSION X Moderator: Joel Zatz, Ph.D.	
10:40 a.m.	Advances in the Science of Percutaneous Absorption Thomas Franz, M.D.
11:05 a.m.	Perspectives on Hydroxyacids

Eugene J. Van Scott, M.D.

11:30 a.m. An overview of the mechanism of action of retinoid related molecules
Braham Shroot, Ph.D.
11:55 ~ 1:30 Lunch and Poster Session

SESSIONS 10 & 11: COSMETICS ~ PHARMACEUTICS: THE FADING BARRIER

SESSION XI Moderator: Jules Mitchell, Ph.D.
1:30 p.m. Evaluating the Role of Antibiotics in Skin Therapy
Otto Mills, Ph.D.
1:55 p.m. Clinical Drug Evaluation
Jules T. Mitchel, Ph.D.
2:20 p.m. Regulatory Considerations for Retin-A Creams
Kim Spear, M.D.
2:30 p.m. Efficacy of Cosmetic Retinol Formulations in Aging Skin
Sergio Nacht, Ph.D.
2:55 ~ 3:20 p.m. Coffee Break
3:20 p.m. Advances in Photodiagnostics
Prof Dr. Med Percy Lehmann
3:45 p.m. **"Keynote Address"**
Sensitive Skin ~ The Interface Between Dermatology & Cosmetology
Albert Kligman, M.D., Ph.D.
4:15 p.m. Closing Comments
Howard I. Maibach, M.D.

FACULTY LIST

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